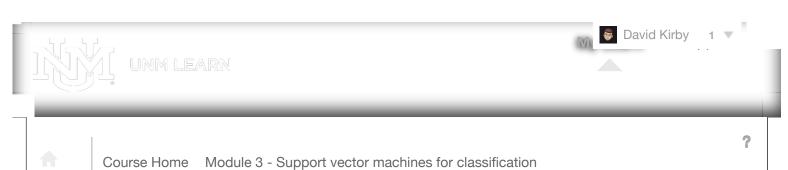
Take Test: Quiz 3. Support vector classification



Take Test: Quiz 3. Support vector classification

Test Information Description Instructions Multiple Attempts This test allows multiple attempts. Force Completion This test can be saved and resumed later.

QUESTION 1

0.014 points

Saved

The SVM criterion takes into account the structural risk and the empirical risk. The optimization is intended to minimize both at the same time.

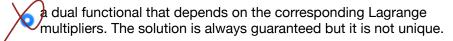


QUESTION 2

0.014 points

Saved

The SVM optimization is performed through a Lagrange analysis. It leads to



The solution of the dual is always guaranteed because the matrix of the functional is non negative definite.

The solution is guaranteed because the functional is the sum of a convex and a concave functions.

▼ Question Completion Status:	
Question Completion Status.	
In a SVM classifier, the weight vector is a linear comb	bination of the training
True False	
o i aise	
QUESTION 4	0.014 points Saved
In a Support Vector Machine, the solution depends of	on a subset of the training
data. True	
○ False	
QUESTION 5	0.015 points Saved
The KKT conditions	
 are obtained from nulling the gradient of the lagra respect to the primal variables (except the compl 	
The KKT conditions are obtained by nulling the g functional wrt the primal and dual variables (exceones).	
The complementary KKT conditions say that either corresponding Lagrange multiplier is zero.	er the constraints or the
The KKT assure that the constraints vanish from optimal point.	the Lagrangian at the
QUESTION 6	0.015 points Saved
QUESTION 6 The dual variables or Lagrange multipliers	0.015 points Saved
	margin
The dual variables or Lagrange multipliers	utside the origin are zero.

